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TITLE: Binder for heat resistant concrete mfr. - contains Portland cement and finely finely milled ferroboron slag to increase strength after firing

INVENTOR: LUNEV, A A; SHTEPAN, G E ; VASILEVA, G M

PRIORITY-DATA: 1978SU-2671152 (July 24, 1978)

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SU 776999 B

November 7, 1980

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INT-CL (IPC): C04B 7/14

ABSTRACTED-PUB-NO: SU 776999B

BASIC-ABSTRACT:

Portland cement binder (e.g. for heat proof cement and plaster and heat-insulating material prepn.) contains finely-milled ferroboron slag to increase strength after firing. The proposed compsn. is (in wt.%): Portland cement 30-60; ferroboron slag (of compsn. (wt.%): SiO₂ 2.08; Al₂O₃ 66.65; CaO 14; MgO 12.8; FeO 2; B₂O₃ 4.34) 40-70.

The proposed slag (having high Al₂O₃ content and absence of low fusion B₂O) gives high refractory properties (over 1450 deg.C) and heat resistance.

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